

WHAT IS CLAIMED IS

1. A method for assembling a power transfer
5 apparatus for selectively changing the speed of the output
shaft relative to the speed of the input shaft, the method
comprising:

assembling an oil pump driving pin to the output
shaft;

10 assembling an oil pump sub-assembly including a pump
base, a pump body having an inner rotor and an outer rotor,
and a pump cover in such a manner that the inner rotor
fits on the oil pump driving pin;

assembling a planetary carrier sub-assembly to the
15 pump cover of the oil pump sub-assembly, wherein the
planetary carrier sub-assembly includes a planetary
carrier, a first pinion gear rotatably carried on the
planetary carrier, a second pinion gear formed with the
first pinion gear and having the number of teeth which
20 is different from that of the first pinion gear, a first
sun gear meshing with the first pinion gear and a second
sun gear meshing with the second pinion gear;

assembling a clutch sub-assembly to the planetary
carrier, wherein the clutch sub-assembly includes a clutch
25 inner hub, a clutch guide, a plurality of clutch discs

mounted on the clutch inner hub, a plurality of clutch plates mounted on the clutch guide so as to be disposed alternately with the clutch discs and a clutch piston and biasing unit for biasing the clutch piston in a direction in which the clutch discs and the clutch plates are brought into engagement with each other;

assembling a transmission brake to the clutch sub-assembly in such a manner that the brake inner hub is coupled with the clutch piston, wherein the transmission brake includes a brake inner hub, a plurality of brake discs and a plurality of brake plates;

inserting the input shaft so as to fit in the first sun gear at the first sprine and the clutch sub-assembly at the second sprine, respectively; and

assembling a front case sub-assembly having bearings for rotatably bearing the input shaft and an actuator for actuating the transmission brake to the differential.

2. A method for assembling a power transfer apparatus as set forth in claim 1, wherein the oil pump sub-assembly, the planetary carrier sub-assembly, the clutch sub-assembly and the transmission brake are serially assembled.

3. A method for assembling a power transfer

apparatus as set forth in Claim 1, wherein the first and second pinion gear are formed integrally.